

Peptides Sequences, Human, Mouse and Rat

A.

```

IB2      : IPSPSVEEPHKHRPTTLRL--TTLGAQDS
IB1      : PGTGCGDTYRPKRPTTLNLFQVPRSQDT
c-Jun    : GAYGSNPKILKQSMTLNLADPVGNLKPH
ATF2     : TNEDHLAVHKHKHEMTLKFGPARNDSVIV

```

B.

```

L-IB2    : EEPHKHRPTTLRL--TTLGAQDS
L-IB1    : DTYRPKRPTTLNLFQVPRSQDT
          ° ° °

```

C.

```

L-TAT    : NH2- GRKKRRQRRR -COOH
L-TAT-IB1 : NH2- GRKKRRQRRRPDDTYRPKRPTTLNLFQVPRSQDT -COOH
L-TAT-IB2 : NH2- GRKKRRQRRRPPEEPHKHRPTTLRLTTLGAQDS -COOH

D-TAT    : NH2- RRRQRRKKRG -COOH
D-TAT-IB1 : NH2- TDQSRPVQPPFLNLTTPRKPRYTDPPRRRQRRKKRG -COOH

```

Fig.1

Generic Sequences, Human, Mouse and Rat

L-TAT-IB	: NH ₂ -	XXXXXXXXXRRRQRRRRXXXXXXXXXXXXXXXXRRPTTLXXXXXXXXXXQDS/TX	- COOH
D-TAT	: NH ₂ -	XXXXXXXXXRRRQRRRRXXXXX	- COOH
D-TAT-IB	: NH ₂ -	XT/SDQXXXXXXXXXLTTTPRXXXXXXXXXXXXRRRQRRKKRXXXXXXXXX	- COOH

Fig.2

Effects of GFP-JBD₂₃ Construct on Pancreatic β -Cell Apoptosis

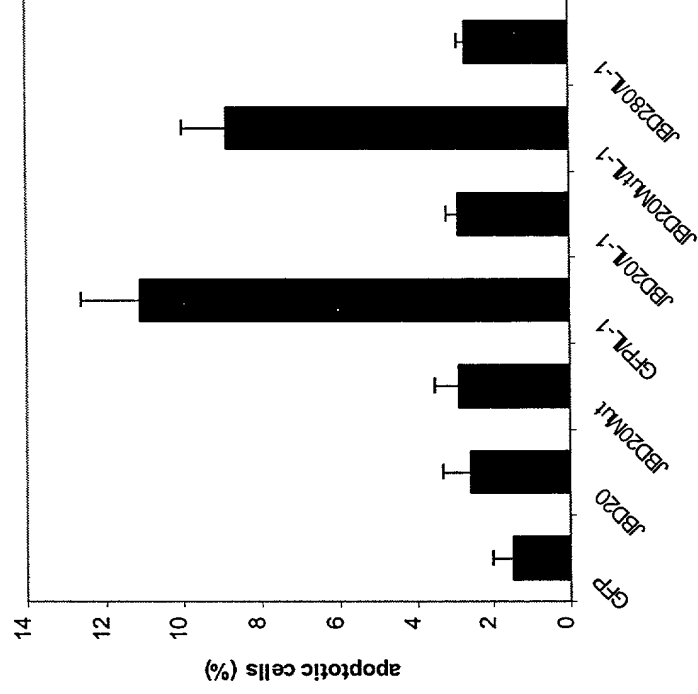


Fig. 3

Effects of TAT-IB Peptides on JNK Mediated Phosphorylation

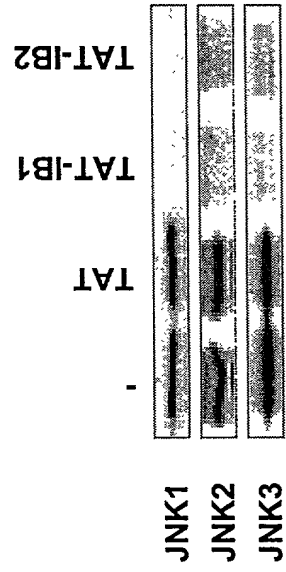


Fig. 4a

Effects of TAT-IB Peptides on JNK Mediated Phosphorylation

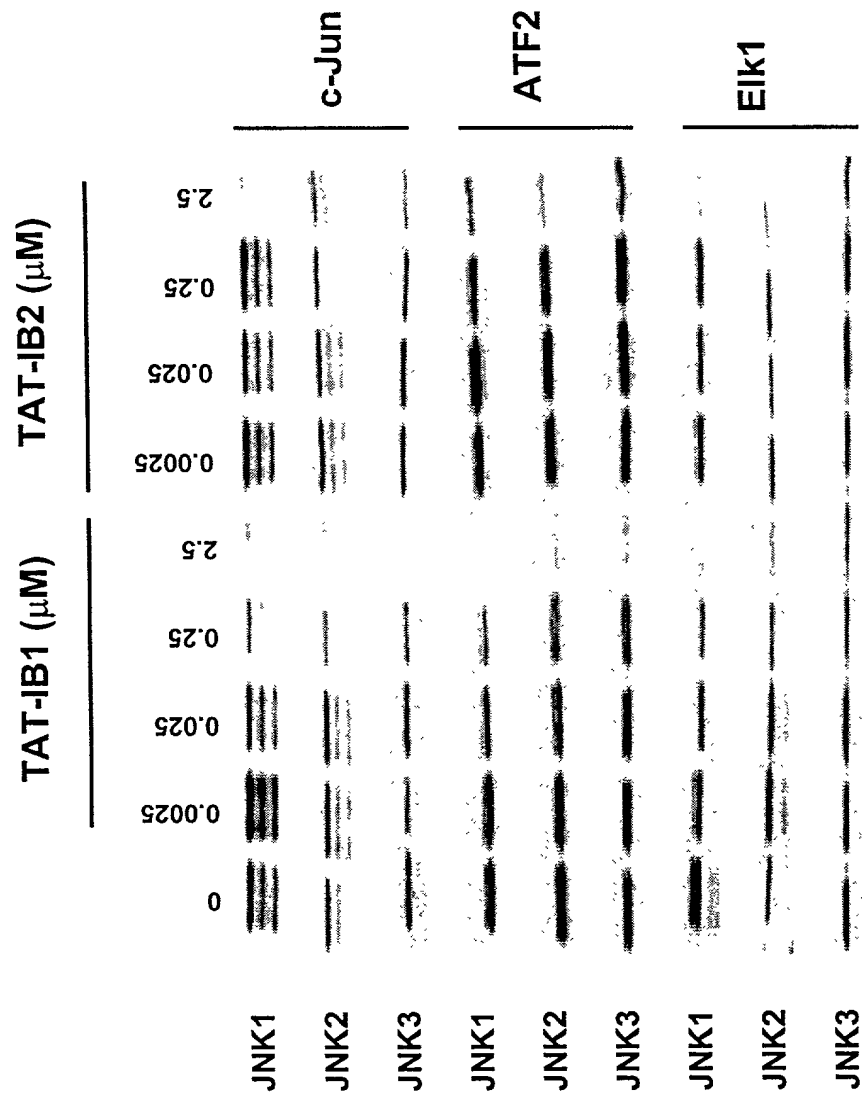
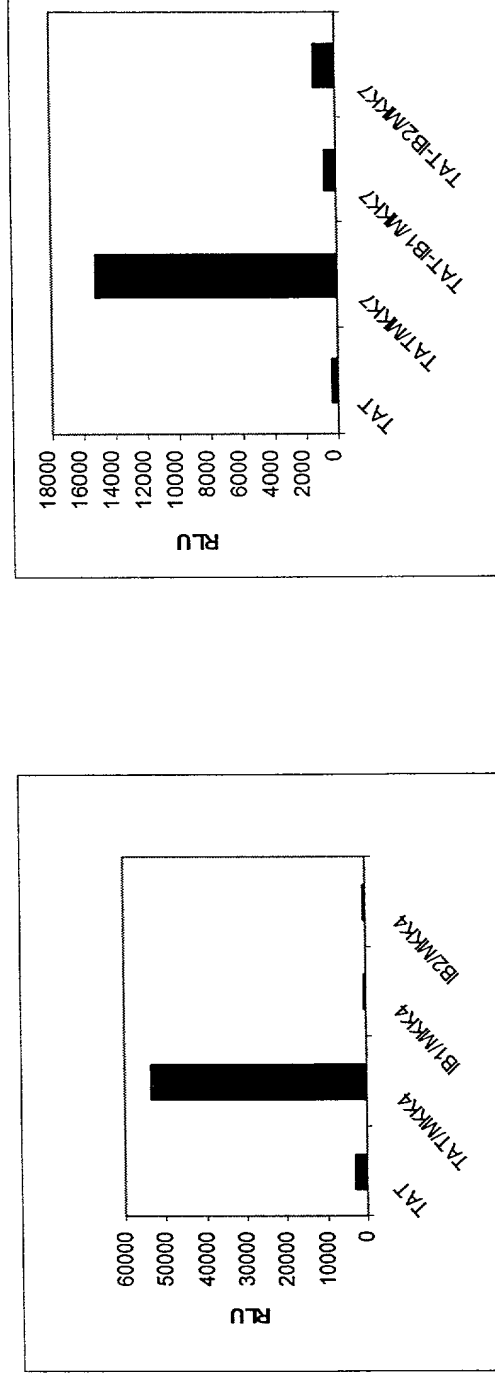


Fig. 4b

L-TAT-IB Inhibition of Phosphorylation By Recombinant JNKs



A.

B.

Fig. 5

In Vivo Inhibition of c-Jun Phosphorylation by TAT-IB Peptides

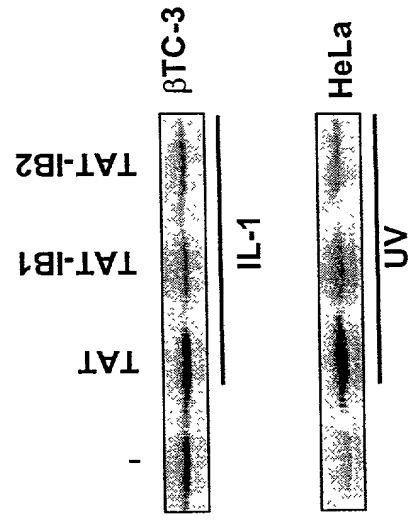


Fig. 6

Inhibition of IL-1 β Induced Pancreatic β -Cell Death by TAT-IB Peptides

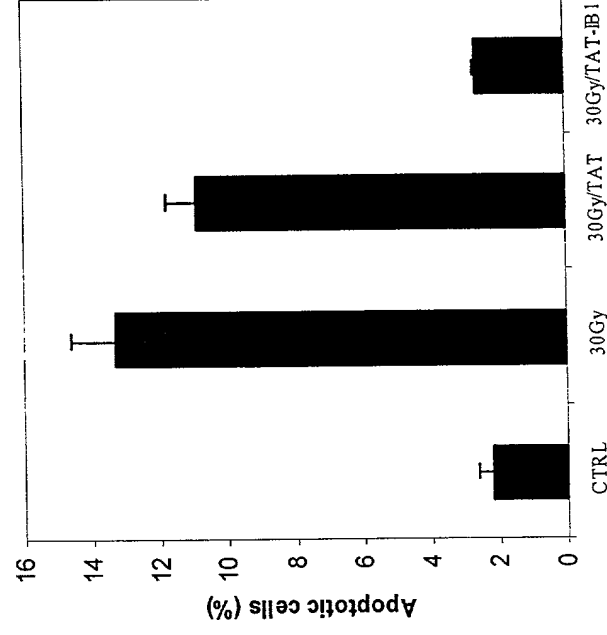


Fig. 7

The D-TAT-IB1 peptide decreases IL-1-induced apoptosis in β TC-3 cells

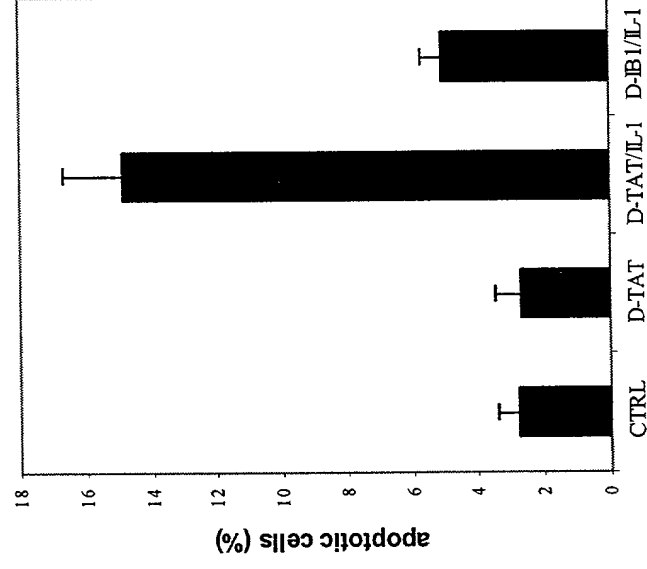


Fig.8

The D-TAT-IB1 peptide confers long-term protection (15 days) against IL-1-induced apoptosis in β TC-3 cells

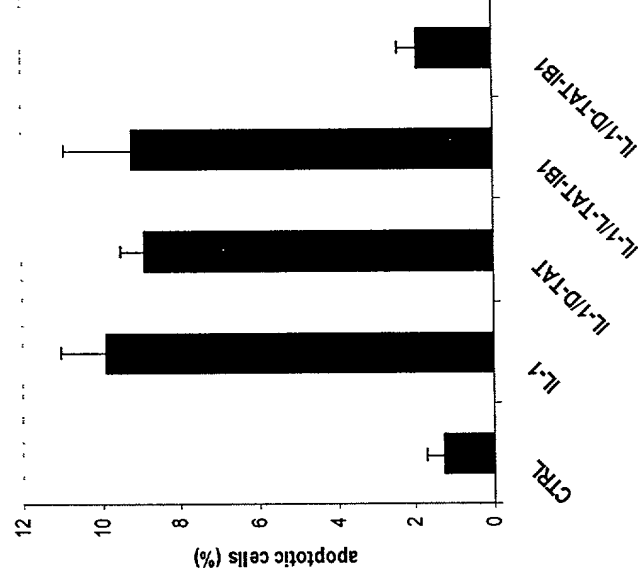


Fig.9

L-TAT-IB1 and D-TAT-IB1 peptides prevent IR-induced apoptosis in a human colon cancer cell line

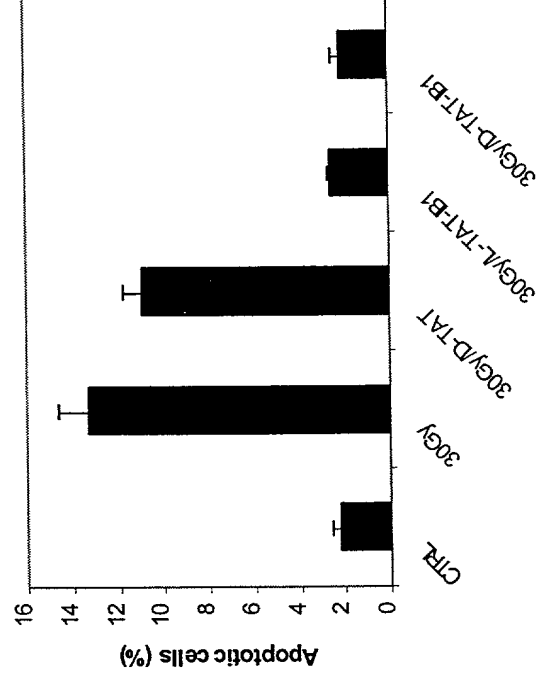


Fig.10

Suppression of JNK Transcription Factor Phosphorylation by L-TAT-IB1 Peptides

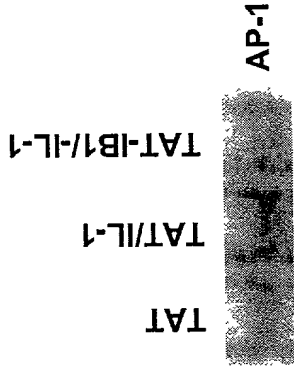
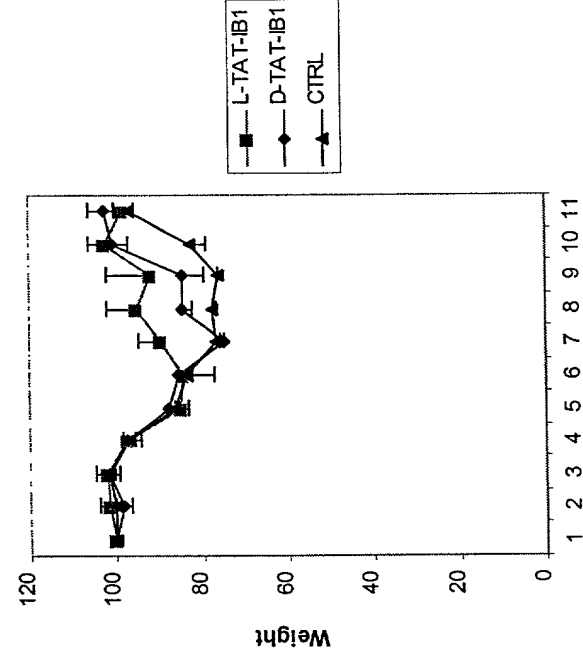
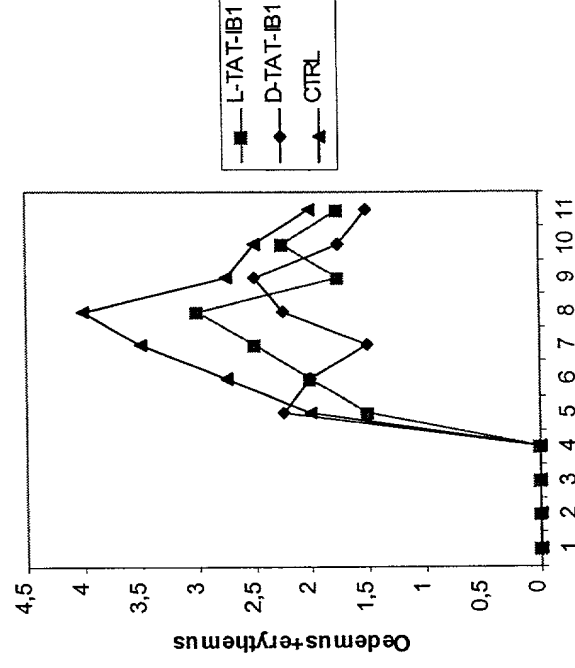


Fig. 11

Radioprotection to Ionizing Radiation by TAT-IB1 Peptides



A.



B.

Fig. 12